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Biophysics from Molecules to Brain: In Memory of Radoslav K. Andjus

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Combination of Nucleoside Analogues Tiazofurin and Ribavirin Downregulates Experimental Autoimmune Encephalomyelitis

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The effect of combined treatment with ribavirin and tiazofurin on the development of experimental encephalomyelitis, the best characterized animal model for human autoimmune disease multiple sclerosis, was investigated. The disease was induced in highly susceptible Dark Agouti rats with spinal cord hemorrhage and complete Freund's adjuvant. Although ribavirin or tiazofurin alone reduced the clinical and histological signs of experimental autoimmune encephalomyelitis, the combination of drugs achieved the same effects at significantly lower doses.

Key Words: EAE • ribavirin • tiazofurin • spinal cord

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